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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,742	10/02/2006	Michel Monnerat	LUTZ 200641	4969
48116 FAY SHARPE/	7590 05/07/200 LUCENT	EXAMINER		
1228 Euclid Av	enue, 5th Floor	NEFF, MICHAEL R		
The Halle Building Cleveland, OH 44115-1843			ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			05/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/568,742	MONNERAT, MICHEL			
Office Action Summary	Examiner	Art Unit			
	MICHAEL R. NEFF	2611			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	Lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 21 Fe 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-9 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-9 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examine  10) ☐ The drawing(s) filed on is/are: a) ☐ acceeding a complex of the drawing sheet(s) including the correction and specification to the drawing sheet(s) including the correction and specification to the drawing sheet(s) including the correction and specification is objected to by the Examine and specification is objected to be a specification in the specification is objected to be a specification	r election requirement. r. epted or b)□ objected to by the E drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 2/21/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

Art Unit: 2611

### **DETAILED ACTION**

## Information Disclosure Statement

1. The information disclosure statement filed 2/21/2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 1 recites the limitation "determining the correlation function" in line 7. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 1 recites the limitation "with the theoretical autocorrelation function" in line10. There is insufficient antecedent basis for this limitation in the claim.
- 5. Claim 9 recites the limitation "determining the correlation function" in line 7. There is insufficient antecedent basis for this limitation in the claim.
- 6. Claim 9 recites the limitation "with the theoretical autocorrelation function" in line10. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Re Claims 1 and 9 specifically, the term RNSS is not defined within the limitations of the claim language, rendering the claim indefinite.

Art Unit: 2611

## Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-5 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Lennen (US Patent 5,818,539, see IDS).

Re claims 1 and 9, Lennen discloses a method and device of validating the detection of a correlation peak between: a signal transmitted by a plurality of navigation satellites (Col. 1 lines 20-28) and received by an RNSS satellite radio navigation receiver (Col. 1 lines 20-28), said signal corresponding to a sum of signals each sent by a satellite and each modulated by a spread spectrum signal characteristic of said satellite (Figure 11 element 22; Col. 2 lines 25-28; Col. 5 lines 2-15), a local replica generated by said receiver (Col. 2 lines 25-32), said replica being the replica of a spread spectrum signal characteristic of a satellite that is being looked for (Col. 2 lines 25-32; Figure 11 element 28), said method including a step of determining the correlation function as a function of time between said received signal and said local replica (Figure 11 element 30; Col. 2 lines 25-45, also lines 53-60), said method being characterized in that it further includes a step of comparing said correlation function with the theoretical autocorrelation function as a function of time of said spread spectrum signal characteristic of said satellite that is being looked for over the whole of the vector

of the correlation function (Col. 2 lines 6-11, also lines 25-45, also line 53- Col. 3 line 3; also Figure 10 and associated disclosure).

Re Claim 2, Lennen discloses the validation method according to claim 1 further characterized in that it includes a step of determining said theoretical autocorrelation function as a function of time of said spread spectrum signal characteristic of said satellite that is being looked for (Figure 10 and associated disclosure; Col. 2 lines 6-24).

Re Claim 3, Lennen discloses the validation method according to either of the preceding claims claim 1 characterized in that said step of comparing said correlation function with the theoretical autocorrelation function includes a step of comparing secondary peaks of each of said functions (Figure 9 and associated disclosure).

Re Claim 4, Lennen discloses the validation method according to claim 1 characterized in that said comparison step includes a step of calculating the correlation between said correlation function and said autocorrelation function (Figures 14 and 15 with associated disclosures).

Re Claim 5, Lennen discloses the validation method according to claim 1 characterized in that said spread spectrum signal is a signal modulating said signal with a known pseudorandom sequence replacing each bit of said signal (Col. 2 lines 25-28; the use of spread spectrum inherently implies the use of pseudo random sequencing in

Art Unit: 2611

order to control the spreading pattern across a given bandwidth to one of ordinary skill in the art).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL R. NEFF whose telephone number is (571)270-1848. The examiner can normally be reached on Monday - Friday 8:00am - 4:30pm EST ALT Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on (571)272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL R. NEFF/ Examiner, Art Unit 2611

Art Unit: 2611

/Chieh M Fan/ Supervisory Patent Examiner, Art Unit 2611